

SINCLAIR USERS GROUP

THE NEUSLETTER OF THE

Victoria Sync Association



CHANGING TIMES

As was mentioned in the last newsletter, the inevitable has begun to happen, and some of us have started acquiring new computers. The ZX81 or Timex 1000 was for most of us our first computer, and will probably remain an object of love for some time. However it will eventually pass out of production, and we will all be on to the next generation. Timex has announced it is going out of the business, while Sinclair in England has just unveiled a mouthwatering new product, the QL (Quantum Leap), which we are told will be selling in North America later this year for \$500 US.

Any computer group which sticks resolutely to only recognizing one model of computer is fated to obscurity in time, so it behooves us to open discussion on the future of the club. Clearly we will have to start supporting other machines as well as the ZX81/TS1000, and the question is which ones? How wide should we spread our attentions?

We should have no intention of abandoning the 81/1000's. Most of us still have a great deal to learn about them, and will want to keep learning for some time. But we will want to take on some new machines as well. One obvious route is to stay with the Sinclair family; another is to branch out into other makes, staying with modestly priced machines. Perhaps we will do both.

It has been suggested that we might make overtures to other computer groups about joint meetings, and reciprocal memberships. This would enable our members who also own other machines to attend sessions on those machines while the rest of us continue to milk the maximum out of our Sinclairs. It would also give the rest of us the opportunity to see what else is going on in the world of tiny computing.

I personally would encourage the idea of joint meetings, on either a regular or itinerant basis, with groups like the Vancouver Island MicroComputer Society. We could, for example, take side-by-side classrooms in a school one evening, and move back and forth.

Perhaps this approach would be a good way of providing our members with the benefits of branching out, without actually watering down our own efforts in support of our main machine. This would be a valuable topic to throw around at the upcoming meeting.

On the subject of our own meetings, I would like to suggest that we try and have a Basic tutorial session scheduled for every meeting. It need not involve everyone, but I strongly suspect that there are few of us who would not listen in anyway, to pick up some tips. It will probably mean dragooning members to stand up and give us 5 or 10 minutes of what they have discovered or learned on their own. Noone will be spared!

Julian Greenwood.



NOTICE OF NEXT MEETING Thurs. Apr. 12, 1984, Bee-Gee's 7:PM

UNREPORT OF UNMEETING: Sec's Report, March 8, 1984.

Our last monthly meeting at Bee-Gee's was of a style we should follow more often. We did not have a business meeting. Our President Dave Skaalrud had just resigned, our V-P was in California, Director Karen Petts was unavailable, I was late, Director Bob Clark expected to be late. In the result Director Stu Montgomery drew the short straw and had to work double duty. He called us to order (to start an informal forum), and soon afterwards had to leave to go on to his job.

Of most significance to me was that members were first interested in Dave's resignation, and secondly in the news of Timex' retirement from computers. These were emotional concerns. The forum was open for <u>any</u> topic, but software enquiries and programming help took a back seat.

Computing is a human activity, and we should not forget that! Reflecting on that I think that some members may feel themselves in need of some discreet help in showing their desire to learn. Perhaps those that have specific questions could put them in writing at the meetings so that we can discuss them in front of the membership.

The Directors met and appointed Julian Greenwood to fill the interim vacancy on the Board left by the shift of Dave Curry to President. Stu Montgomery is in the process of being railroaded to V-P, but he missed the meeting!

The REGISTERED ADDRESS of the Victoria Sync Association is 942 Cloverdale Ave., Victoria, B.C., USX 2T6.

President David Curry 743-9260 Sec. Treas. Dee Shoolingin c/o Victoria Sync. Assn. Stu Montgomery ector 478-6350 Director Bob Clark 384-7410 Director Karen Petts 656-5879 Director Julian Greenwood 383-2073

Committee Chairmen

Tom Caron 385-2866 Education Displays Alison Gunn 479-8618 Machine Code Dale Bird 592-5058 743-9260 (Cobble Hill) Librarians Dave Curry David Skaalrud 656-5879 (Royal Oak) Newsletter Dee Shoolingin 388-5464 #107 (msg.)

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All ads must be accompanied by payment (Checques payable to the Victoria Sync Assn.) and submitted camera-ready (ZX print-out or typed) two weeks or more before the second Thursday of each

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Mork Wanted, Help Wanted, Trade/Swap.

Wanted to Buy, For Sale, Play, etc.

Membership is \$10.00 per year, which includes subscription to the newsletter. Regular meetings are held on the second Thursday of each month.

VICTORIA SYNC ASSOCIATION - MEMBERSHIP APPLICATION

Please provide the following information : Name, address, postal code, telephone number(s), optional age & gender and other info about yourself which you want us to know. Send to Victoria Sync Association, 942 Cloverdale Ave, Victoria He also want to know what equipment you have, your experience and B.C., USX 276, or present at meeting. special interests. Enclose your dues of \$10.00.



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Richard Haskell, "IBM-PC Basic Programming" \$18.95

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If you don't see what you want, give us the title, author & publisher, and we can order it for you.

by Craig Bird

The state of the s

70 RAND USR 16518

2) This program will print one of the 8 shapes anywhere 16417 of the 8 shapes in to 4 printed. This program is used by RAND USR 16514. This program is used by printed the shapes will be printed the shape will be printed the screen. Fight shape number 1 at 10.10 POKE 16417.0 10;

20 PRINT 16417.0 20 PRINT 10.10;

30 RAND USR 16514

3) This program will replace of program with blacks. It is much faster to use which screen with blacks. It is much faster to program instead program is used by RAND USR 16516.

USE the program in listing one to type in the numbers in listing two one at a time reading from left to right. After all the numbers have been typed in, all lines exept line 10 can be removed. Any program that uses the machine code in line 10 can now be typed in.

line 10 can now be typed in.

Included with this prossed is a simple same in basic below in the same in type in the lines in the BASIC listing below to use the BASIC listing below to use in the BASIC listing below already been typed in by using the prossed in listing one. The idea of the same is to prevent the space of the same is to prevent the space ship coming your square from reaching positions your square over it then simple sample square for the scored. It is as as a example scored. It is as as a example scored. It is as as a example scored. It is used above. To key but it can be used above. To key of the prossible uses the same, directions, and the same, directions, and the same, directions, as for the same, directions as to prossed the same, directions as to prossed the same, directions as to prossed the same, directions as the same of the space ship.

I need help! I am running out

I need help! I am running out of ideas for programs for this column. If you have a simple program you would like me to make for it let me know. Where else can you get computer programs written for free?

Crais Bird 592-5058



LISTING 2

739539439 31231222224 211113359 211113359 76 135 95 58 135 42 33 22 244542 28344193 5 89 3 141193 12 6 4 19525 4135 95 ĭs 250 13 3 5 533 5432**29**43455 21121221623 64 135 65 54 191 6 942121198 66542 1 4 Ø 5 5 Ø 1 254 183 41144500 6 1 5 32 14 118 16 200 40 246 13 35 201 5 32 ēšs

SAMPLE PROGRAM

120 PORINT THE TOTAL PRESENT LEFT TO A CHARACTER TO

"TAX AND THE SYSTEM"

The Commissar now has a bulletin #40-83 for SS taxing of computers and ftware. The general principle is "If doubt, tax it; otherwise tax it anyway." A bit dry, but a must for business users.

MRP Technology, PO Box 340128, Tampa, FL 33694 (813) 961-2595 (after 7 p.m). has a \$20.00 kit for building a 64K Rampack for a ZX/TS. All parts except 14 IC's and sockets and some resistors, capacitors, diodes - this could be about \$60 worth of stuff.

Dave Dack is looking for a cartridge that plugs into a Magnavox Odyssey 2. Sell cheap or lend him one for a while,

We have received letters from individuals all over Canada wanting info or asking to join us. Also we have been sent some Commercial fliers, like the one from MRP. However there have been no spiffy groups offering to exchange newsletters since the New York one.

rry Computers, 5344 Hest Banff, Glen-ale, AZ 85306, (602) 978-2902, has a Timex catalogue. Examples: 2068 for \$169.95; 2040 for \$89.95. Lots of TS1000 and 2068 software cassettes, from \$3.25

Compusa has a nice controller for \$199. Horks with SA400 and similar drives, including Double Sided, Double Density. They say the operating system is compatible with other computers. CP/M?

Thomas B. Hoods, PO Box 64, Jefferson, NH,03587, (603) 586-7734 has PRO/FILE. the almost 100 page manual is not ready yet, but will be available to all who buy it now at \$29.95.

C-64 users dislike Commodore's version of MicroSoft Basic so much that they are replacing it with COMAL, a very complex language written by Borge Christianson.

Bill Love is alive and well nursing an old system at Barrie Ont., 56 Little Lake Drive, RR#1, (705) 737-4491.





LAST MONTH I PROBABLY HINTED SO THIS MONTH IS THE RESULT OTHE HINT IN HARD COPY. AND ITHAT DOESN,T MAKE SENSE, THE MAYBE YOU SHOULD READ THE RESULT THIS. OF IF TH

OF THIS.

THE BOOKS YOU BUY, AND THE MANUALS YOU READ, SOMETIMES LET YOU STRUGGLE ALONG, AND EVERY ONCE IN A WHILE YOU COME UP WITH A PROBLEM, AND NO SOLUTION TO BE

FOUND.

MAYBE THIS HAS HAPPENED TO YOU; YOU WERE PLAYING "DAS-BOOT", AND THEN YOU TRIED TO LOAD IN "GUEST", OR "UU-FILE", OR "MELTDOWN", AND ALL YOU COULD GET WAS A "K" CURSOR FOR YOUR TROUBLE. BUT, YOU SAY TO YOURSELF, THEY HAVE ALL LOADED O.K. BEFORE. AND AFTER A FEW MORE ATTEMPTS, YOU LOAD IN A PROGRAM THAT YOU COPIED OUT OF A MAGAZINE, AND IT WORKS.

COPIED OUT OF A MAGAZINE, AND IT WORKS.

WHY? THERE YOU WERE SITTING CONTEMPLATING THE EARLY DEMISE OFTHE HAM-RADIO OPERATOR DOWN THE STREET FOR INJECTING SIGNALS INTO YOUR COMPUTER, OR THE NEXT DOORNEIGHBOR FOR USING POWER TOOLS AND INJECTING SPIKES INTO THE POWER LINE, NOT REALIZING THAT THE GULPRIT IS YOURSELF.

OH, REALLY? HOW COULD THAT

YOURSELF.
OH, REALLY? HOW COULD THAT BE? WELL, REMEMBER, THE FIRST REQUIREMENT TO LOAD "DAS-BOOT" WAS TO POKE DOWN RAM-TOP. (POKE 16389,103),(NEW). AND THEN YOU TRIED TO LOAD IN A FULL 16K PROGRAM, AND THERE WAS JUST NOT ENOUGH ROOM. BUT THE PROGRAM FROM THE MAGAZINE WAS ONLY 9K OR LESS, AND THAT IS WHY IT WENT IN.

FROM THE MAGAZINE WAS ONLY 9K OR
LESS, AND THAT IS WHY IT WENT
IN.

THIS IS WHERE "RAND USR 0" IS
VERY HELPTUL. IT BEATS
ANDTEAR ON THE 9-VOLT JACK ON
YOUR COMPUTER. IN OTHER WORDS,
RAND USR 0 DOES THE SAME THING
AS UNPLUGGING YOUR COMPUTER, AND
PLUGGING TO HAVE TO RETUNE
YOUR T.V. SET EVERY TIME YOU
TURN OFF AND ON.

THIS PROCEDURE WILL EVEN
RESET YOUR COMPUTER IF YOU HAVE
A PROGRAM IN YOUR SYSTEM WHICH
RESIDES "ABOVE-RAM-TOP" SUCH AS
"TOOLKIT" OR "ASSEMBLER".
A SPECIAL NOTE FOR PEOPLE
WITH 64K, OR 32K MEMORY. AND THE
RESET YOUR TO REASE THE
WITH 64K, OR 32K MEMORY. AND THE
REMORY IN THE 8K-TO-16K ARE
AND USR 0 DOES NOT, AND THE
MEMORY IN THE 8K-TO-16K ARE
ALL OTHER MEMORY THIS WAYLAND
KEEP YOUR MACHINE CODE INTACT.
FOR THOSE OF YOU WITH 16K
RAMPACKS, YOU DO NOT HAVE THE
8-TO-16K AREA. YOU HAVE THE
16K-TO-32K AREA. AND IF THIS
CONFUSES YOU, FEEL FREE TO PHONE
ME AT 656-5879, EVENINGS, OR
WEEKENDS.
WELL, LL BE BACK
MONTH. ITHE
M

WEEKENDS.

WELL, THAT,S IT FOR MONTH. I,LL BE BACK AGAIN MONTH WITH SOME NEW HINTS, THE USR ROUTINES WILL ABANDONED, AS THE REST OF ARE USELESS FOR MOST PEOPLE, SERIOUS PROGRAMMERS USUALLY THEM ANYWAY. NEXT BUT THEM

DAVE SKAALRUD

RAND USR Ø

KNITTING PROJECT

Some time ago I challenged the membership to help write a ZX81 program capable of "charting" a knitting project. One would put in the measurements of the victim — the intended recipient of the new sweater — together with some information about stitch and row gauges. The program would then issue instructions about how many stitches to cast on, when to increase or decrease, how to bind off, etc.

To the delight of my knitting wife, I have finally started this. Somewhere in this issue you will find a listing which does actually chart out the back of a sweater with reasonable success. Next I have to do the front and sleeves. Then I will want to add modifications for different neck styles. The whole will be driven from a menu.

In the listing, the menu starts at 1500. There are not many choices on it yet, but there will be more! The essential measurements are put in through the routine at lines 1200-1390, which then returns you to the menu.

Once that is done, the instructions for the back of the sweater start at 2000. Instructions come up a few at a time, and then GOSUB 500 provides a pause, and a message "press any key to continue". This allows the user to make notes before reading the next screen.

When I get around to finishing it, I'm sure it will take Lynne much less long to make me the sweater, which will, of course, be tendered as an exhibit at an upcoming meeting!

Julian Greenwood.

```
10 GCTO 1500

100 LET UK=(INT (CH/4)) /2+3

110 IF CH>=44 THEN LET UK=UK+.5

120 IF UK>9.5 THEN LET UK=UK+.5

130 RETURN

200 LET UK=(INT (CH/4)) /2+4.5

210 IF CH<26 THEN LET UK=UK-.5

220 IF UK>10.5 THEN LET UK=UK+.5

230 RETURN

300 IF U$="F" THEN LET UK=UK+1+

INT ((CH-32) /8) /4

1320 IF U$="M" THEN LET UK=UK+1+

INT ((CH-32) /8) /2

330 RETURN

400 IF U$="F" OR U$="M" THEN LE

T CH=CH+INT (CH/8)

410 IF U$="F" OR U$="M" THEN LE

T CH=CH+INT (CH/8)

420 RETURN

500 PRINT AT 21,0; PRESS ANY KE

Y TO CONTINUE"

515 IF INKEY $="" THEN GOTO 510

520 RETURN

900 PAUSE 100

910 CLS

920 PRINT "IS THIS A COAT? (Y/N)

930 INPUT C$

1000 PRINT "CHILD (C) FEMALE ADULT

(F), OR MALE ADULT(H):"

1010 INPUT U$

1020 IF U$="C" OR U$="F" THEN GO

5UB 100

1030 IF U$="C" AND U$
1040 IF U$="M" THEN GOSUB 200

1040 IF U$
1050 PRINT "IS THIS A LARGER SUE

ATER (WORN OVER OTHER CLOTHES? (Y)

N)"
```

```
1060 INPUT ($ 1070 IF Y$="Y" THEN GOSUB 300 1080 LET BNK=(INT (CH/4))/2+2 1100 PAUSE 100 1110 GOTO 1500 1200 CLS
       1100 PAUSE 100
1110 GOTO 1500
1200 CLS
1210 PRINT "ENTER MERSUREMENTS
1220 PRINT "CHEST",
1230 INPUT CH.
1240 PRINT CH, "SHOULDER MERS.",
1250 INPUT SH
1260 PRINT SH, "UNDERARM LENGTH",
1270 INPUT SL
1280 PRINT UL, "SLEEVE LENGTH",
1290 INPUT SL
1300 PRINT SL, "WRIST",
1310 INPUT SL
1320 PRINT W, "BICEP",
1330 INPUT B
1340 PRINT B, "STITCHES/INCH",
1350 INPUT SG
1360 PRINT RG
1370 INPUT RG
1380 PRINT RG
1390 GOTO 900
1500 CLS
1510 PRINT AT 3,0; "1. ENTER MER
SUREMENTS"
1520 PRINT AT 3,0; "2. BACK INST
RUCTIONS"
1500 INPUT X
1610 IF X=1 THEN GOTO 1200
1620 IF X=2 THEN GOTO 2000
1700 GOTO 1600
            1620 IF X=2 THEN GUIU 2000

1700 GOTO 1600

2000 CLS

2002 LET A=CH/2+SG

2004 IF A>=INT A+.5 THEN LET A=I

NT A+1

2006 IF A<INT A+.5 THEN LET A=IN

T A
               2010 PRINT "CAST ON ",A;" STITCH
         2010 PRINT "CHST ON ;A; "STITCH

ES":
2020 PRINT "RIB WITH NEEDLES 2

O 3 SIZES SMALLER THAN USED FOR

BODY OF GARMENT."
2030 PRINT "RIB K1,P1 FOR 2.5 IN

CHES OR AS DESIRED. THEN CHANGE

NEEDLES"
2040 GOSUB 500
2050 PRINT "WORK EVEN UNTIL PIEC

MEASURES "JUL;" INCHES
2060 PRINT "CHECK MEASUREMENTS.

PIECE SHOULD BE ";CH/2; "ACROSS

AND ;UL; LONG"
2070 GOSUB 500
2070 GOSUB 500
2070 GOSUB 500
2080 PRINT "SHAPE ARMHOLES"
2080 PRINT "SHAPE ARMHOLES"
2090 LET AR=(A-SG*SH)/2
2100 IF AR<>INT AR THEN LET SH=SH+1
 2090 LET AR=(A-SG*SH)/2
2100 IF AR
2100 IF AR
2110 LET AR=(A-SG*SH)/2
2120 LET AR1=INT (AR/4+1)
2130 LET AR2=AR-2*AR1
2140 PRINT "BIND OFF "; AR1; "ST
AT BEG. NEXT 2 ROWS"
2150 PRINT "THEN DECR. 1 ST. EAC
H END YEART "THEN DECR. 1 ST. EAC
H END EVERY OTHER ROW "; AR2; "IL
MES"
2170 PRINT "UORK EVEN TILL ARMHO
LET IS ", UK "INCHES"
2170 PRINT "WORK EVEN TILL ARMHO
LET UKR=INT (RG*UK)
2190 IF UKR=RG*UK THEN PRINT ";"
2190 IF UKR*RG*UK THEN PRINT ";"
2210 GOSUB 500
2300 PRINT "SHAPE NECK"
2210 GOSUB 500
23300 PRINT "SHAPE NECK"
2310 LET SN=SG*(SH-BNK)/2
2330 IF SN>=INT SN+5 THEN LET SN
2310 LET BNKS=SG*SH-2*SN
2310 LET BNKS=SG*SH-2*SN
2310 LET BNKS=SG*SH-2*SN
2310 IF SG>4 THEN LET K=2
2370 IF SG>6 THEN LET K=3
2370 IF SG>6 THEN LET K=4
2370 IF SG>7 THEN
2350 IF SG 4 THEN LET K=2
2360 IF SG >= 4 AND SG <= 6 THEN LET
K=3
2370 IF SG >6 THEN LET K=4
2380 IF SN >K = INT (SN >K) >= 5 THEN
LET L=INT (SN >K) +1
2390 IF SN >K = INT (SN >K) <= 5 THEN
LET L=INT (SN >K)
2400 LET L2=SN - (K - 1) *L
2405 IF L2=L THEN GOTO 2430
2410 PRINT "BIND OFF ";L;" STS.
AT BEG. OF NEXT ";2 *K = 2; "ROUS;
AND ";L2;" STS. AT BEG. OF THE F
OLLOWING 2 ROUS"
2420 GOTO 2450
2430 PRINT "BIND OFF ";L;" STS.
AT BEG. OF NEXT ";2 *K;" ROUS"
2450 GOSUB 500
2450 PRINT "FINISH BACK OF NECK
BY BINDING OFF REMAINING ";BNKS;
"STS. OR PLACING THEM ON HOLDER
2470 GOTO 1500
   2470 GOTO 1500
```

****** THE PIRATE,S + -CORNER-+ BY D. CURRY ******

THIS MONTH,S SHEET WILL DIGRESS FROM THE USUAL, IT COULD BE TITLED -TRAVELS TO TIMEX LAND- ORTIMEX, TIMEX, WHO,S GOT THE TIMEX?

THE COLOR OF THE C THE DAY I

RIGHT.

TORILLER REPORTS TO THE LETT OF TH

GROUP AND THE PORTLAND

ROD GOWEN
RMG ENTERPRISES
1419 1/2 7TH ST.
OREGON CITY, OREGON
97045

555-7484

THE OTHER CONTACT I MADE WAS WITH A MEMBER OF THE PORTLAND USER GROUP.

KEVIN FOWLER 5854 N.E. MULTNOMAH PORTLAND, OREGON 97213

253-0844

BOTH GUYS ARE REALLY FRIENDLY, Were eager to hear of our efforts with the club.

SO.... THE 2068 IS EVERYTHING WE, VE HEARD. BRIEFLY... SOUND IT AND COLOR ARE GOOD. I FOUND IT DISCONCERTING TO HAVE COMMING REALLY ENHANCES THE PROGRAMS. IT, S A REAL TOOL FOR SHOUING OFF. THOSE WITH C64 OR TI-99 EXPERIANCE, IT, S UERY MUCH THE SAME. THE KEYBOARD, THE AUTO SAME. THE KEYBOARD, THE AUTO SAME. THE KEYBOARD, THE SAME. THE KEYBOARD, THE SAME. THE KEYBOARD, THE SAME. THE KEYBOARD, THE SAME. THE STERANCE BE.

BITS AND BYTES

17000 IS AN OUERBYTE.

DAVE HUSTON AND I DECIDED TO BLOW \$15.00 U.S.; AND ORDER THE LITTLE KEYBOARD ADVERTISED IN SYNC UNDER FILESIXTY OR THE NEW SYNC UNDER FILESIXTY OR THE TOOK 3 NAME - SECONDBASE, IT TOOK 3 WEEKS TO COME, THEWAS NO DUTY, AND AS FAR AS, I,M CONCERNED HOT HE NEXT BEST IT AT THE NEXT BEST IT AT THE NEXT PORRIDGE. SEE IT AT THE NEXT PORRIDGE. THENAME OF THE CITOT MEETING. THENAME AD) IS ALTOONA, PA.

I DID MANAGE TO BUY AND USEFUL BOOKS FOR ZX81 AND THE 2068, SO COLUMNS WE,LL HAVE DISCUSS. SOME NEW BOTH THE IN FUTURE THINGS TO

I HAVE NOT LAID HANDS ON ANY NEW PROGRAMS, BUT I HEAR THAT THE BIRD BROS. WORD PROCESSING PROGRAM IS ABOUT READY SO I,M LOOKING FORWARD TO GETTING A COPY.

THAT, 3 IT FOR THIS MONTH YOU AT THE MEETING. SEE

P.S. I.LL BRING THE COMPUTING ELECTRONICS THE ARTICLE ON THE QL. IMPRESSIVE.

RADIO SHACK MC10

Last week Dee & I searched through the memory on the MC-10 and found some addresses which will help the MC-10's potential to become known. Included in this issue is a program which demonstrates the graphics potential of this machine. We also found that machine code is possible, and that there are commands which execute machine code which aren't in the manual the MC-10 comes with.

To execute a machine code program one can use the command EXEC, followed by the starting address of the machine code program. This is similar to the Sinclair USR, though it has differences.

The MC-10 has its own USR function, but with this command you must poke the addresses 16918 and 16919 with the starting address of the machine code. Also the USR function is preceded by a number in brackets which can be used by the machine code being executed.

On the MC-10, when you poke addresses, the most significant byte comes first instead of last.

I would be interested to hear of other discoveries people have made the MC-10.

Dale Bird.

Try this: (on the MC-10)

10 REM 119 119

15 N=1

20 EXEC 17227

30 FOR DELAY = 0 TO 400: NEXT

32 PRINT N

35 EXEC (65445) N,1

40 EXEC 17233

50 FOR DELAY = 0 TO 400: NEXT

55 N=N+1

60 POKE 17228, N

80 GOTO 20

CSAVE "ZX REM"

Figure 1: extensions to Sinclair Basices

Channels

There are seven channels: the keyboard (k), the screen (s), the ZX printer (p), the text RS232 interface (t), the binary RS232 interface (b), the network (n) and the Microdrive (m).

Streams

These are given by # number where the number can be between 1-15.

Statements:

y Lists all the files in the cartridge in Microdrive y. This shows the name of the cartridge and the number of remaining kilobytes.

CAT #z;y

Sends catalogue of cartridge in Microdrive y to stream z.

CLOSE #stream

Unlinks any channel from the specified stream.

ERASE"m";v;"[name]" Erases the file with the specified name from the cartridge in Microdrive y.

FORMAT"m";y;"(name)"

Prepares a blank cartridge in Microdrive y for use by Basic.

FORMAT"n";x

Sets the network station number to x.

FORMAT"t";x

Sets the baud rate for the RS232 interface to x.

FORMAT"1";x
Sets the baud rate for the RS232 interface to x.
INKEY\$#stream
Returns a single character as a string if one's available or the null string " "

if no character's available from the stream.

INPUT#stream; variable Inputs the variable from the specified stream.

Load* channel options Loads the programs, data or code from the specified channel. Channels

'b', 'n' and 'm' are the only ones that can be used.

All options usually available with LOAD are available with LOAD*.

MERGE* channel options The same as to an except that it doesn't delete old program lines to make

way for new ones with the same program line.

MOVE sources to Moves data from source to destination. These can be either stream destination numbers or channels.

OPEN#stream, channel Links the specified channel to the specified stream to allow Basic input or output to that channel.

PRINT#stream... Outputs the print sequence (...) to the specified stream.

save* channel options

Saves the program, data, or code to the specified channel. Only channels

'b', 'n' or 'm' can be used.

All facilities available with save are available with save*.

VERIFY* channel options

The same as LOAD except that data is not loaded but is compared with the data already there.

A 32-bit computer for \$499? Clive Sinclair, creator of the \$99 Sinclair computer which was introduced three years ago, plans to unveil such a system this summer. Dubbed the Sinclair QL -- Quantum Leap -- it, like the Apple MacIntosh, is based on Motorola's 68000 microchip. Included in the \$499 price will be 128K RAM -- expandable to over one megabyte -- and two microfloppy disk drives, presumably 3½", each with a capacity of 100K. Also bundled are word processing, spreadsheet, database and graphics software programs, along with a full keyboard with five function keys. Color graphics are supported by the system, although a video-display unit is extra. The QL will be incompatible with every other microcomputer on the market, however, with its proprietary QDOS operating system. The system is touted as being multiuser and multitasking.

Should the unit come close to what it claims to possess for the price, the computer industry's price/performance expectations will be completely restructured. (Asian Computer Monthly, March 1984; 22 Wyndham St., Hong Kong.)

If only one person on the net owns a Microdrive then there's a very useful facility called broadcast. What it does is allow one station to send data or programs to all the others on the network and not have to wait for them to input it.

When something is sent on the broadcast channel it's always sent to station 0. So if data's to be sent, the command OPEN#"n";0 is used. Any stations that are reading on the broadcast channel can get what ever is sent on it from any other station. The same applies to programs. Should a user have a program that he thinks everyone should have, then he can save it; SAVE*"n";0 and have, then he can save it; SAVE*"n";0 will receive it. If no-one loads the program, the sender's computer is not held up as before, but is ready for use straight away as the program is lost.



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